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SEED ANALYSES REPORT

FOR THE YEAR

1947

MILES HORST
Secretary of Agriculture

Commonwealth of Pennsylvania
Department of Agriculture
Harrisburg

-10

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Seed Analyses Report—1947

This is the last report for the Seed Act of 1921. The tables found on the following pages list the results and activities of the Seed Laboratory for 1947.

THE PENNSYLVANIA SEED ACT OF 1947

The General Assembly of 1947 passed the Pennsylvania Seed Act No. 197. This act authorized the Secretary of Agriculture to make such reasonable rules and regulations that shall be necessary to carry out the provisions of this act.

A summary of the Seed Act is as follows:

"It shall be unlawful to sell, offer for sale, or expose for sale, or transport any agricultural seeds for seeding purposes in bulk, package or containers of ten pounds or more, unless there shall be delivered to the purchaser, or unless the package or container in which the same shall be exposed or offered for sale or transported, shall have attached thereto in a conspicuous place on the exterior thereof, a tag or label, on which shall be plainly and legibly written or printed in the English language, the following information relating to such seeds:

"(1) Commonly accepted name of (i) kind, or (ii) kind and variety, or (iii) identifying symbol or number of hybrids of each agricultural seed component in excess of five per cent (5%) of the whole, and the percentage by weight of each in the order of its predominance. Where more than one component is required to be named, the word 'mixture' or the word 'mixed,' shall be shown conspicuously on the label;

"(2) Lot number;

"(3) Country and state of origin of certified seed, and agency responsible for its certification;

"(4) Country and state of origin, if known, of alfalfa, red clover and field corn. If the origin is unknown, that fact shall be stated;

"(5) Percentage by weight of all weed seeds;

"(6) The name and number of each kind of noxious weed seeds or bulblets per ounce in the following group:--Agrostis spp., Rhodes grass, Bermuda grass, timothy, orchard grass, fescues, alsike and white clover, Reed canary grass, Dallis grass, ryegrass, foxtail millet, alfalfa, red clover, sweet clovers, lespedezas, smooth brome, tall oat grass, crimson clover, Brassica spp., flax, Agropyron spp., and other agricultural seeds of similar size and weight or mixtures within this group; and

"(7) The name and number of noxious weed seeds, or number of bulblets per pound in a group, composed of proso, wheat, Sudan grass, oats, rye, barley, buckwheat, sorghums, vetches and other agricultural seeds of a size and weight similar to, or greater than those within this group or any mixtures within this group;

"(8) Percentage of weight of agricultural seeds (which may be designated as 'crop seeds'), other than those required to be named on the label;

"(9) Percentage by weight of inert matter;

"(10) For each named agricultural seed (i) the percentage of germination exclusive of hard seed, (ii) the percentage of hard seed, if present, and (iii) the calendar month and year the test was completed to determine such percentages. The additional statement 'total germination and hard seeds' may be stated after the foregoing, if desired;

"(11) Packages containing seeds treated with a poisonous material shall be plainly marked in contrasting color with the information that the seeds contained therein have been 'treated with poison'.

"(12) Name and address of the person who labeled said seed, or who sells, offers or exposes said seed for sale within this State.

"The provisions of this section shall not be construed to prohibit the sale in bushel lots or less by a retailer to the ultimate user when such sales are made from original packages bearing the information required by this section.

"It shall be unlawful to sell, offer for sale, or expose for sale any vegetable seeds within this State for sowing purposes in bulk, package or containers, unless there shall be delivered to the purchaser, or unless the package or container in which the same shall be exposed or offered for sale shall have attached thereto a tag or label on which shall be plainly written or printed in the English language the following information relating to such seeds:

"(1) Name of kind and variety of seed;

"(2) Name and number per ounce of noxious weed seeds present;

"(3) For seeds which germinate less than the standard, last established by the Secretary of Agriculture, under this act:

"(a) Percentage of germination exclusive of hard seed;

"(b) Percentage of hard seed, if present;

"(c) The calendar month and year the test was completed to determine such percentages;

"(d) The words 'Below Germination Standard' in not less than eight-point type;

"(4) Name and address of the person who labeled said seed or who sells, offers or exposes said seed for sale, within this State.

"It shall be unlawful for any person to sell, offer for sale or expose for sale, any agricultural or vegetable seed within this State:

"(1) Unless the test to determine the percentage of germination required by the sections quoted above shall have been completed within a nine month period, exclusive of the calendar month in which the test was completed, immediately prior to sale, exposure for sale, or offering for sale or transportation;

"(2) Containing prohibited weed seeds;

"(3) Containing noxious weed seeds in excess of established tolerance;

"(4) Containing weed seeds, collectively in excess of three per cent by weight;

"(5) Not labeled in accordance with the provisions of this act, or having false or misleading labeling;

"(6) Pertaining to which there has been a false or misleading advertisement."

The following paragraphs are quoted from the revised Rules and Regulations under the Pennsylvania Seed Act:

"FEE. - The fee must accompany the sample. No test can be made until the fee is paid. Postage stamps will not be accepted. Checks and money orders should be made payable to The Commonwealth of Pennsylvania.

"SCHEDULE OF CHARGES. - (a) A charge of fifty cents ($0.50) per sample will be made for purity test, germination test, or both, for such seeds as red clover, timothy, alfalfa, alsike clover, ryegrasses, cereals and vetches.

"(b) A charge of fifty cents ($0.50) per sample will be made for the examination for prohibited and noxious weeds (any seeds).

"(c) A charge of one dollar ($1.00) per sample will be made for purity test, germination test, or both, for bentgrasses, bluegrasses, orchard grass, redtop and other grasses of similar size.

"(d) A charge of three dollars ($3.00) will be made for purity test, germination test, or both, for mixtures containing three or more kinds of seeds.

"Prohibited Weed Seeds

Bindweed (Convolvulus spp.)
Quackgrass (Agropyron repens)
Thistle, Canada (Cirsium arvense)

"The sale of agricultural seed containing any of the above weed seeds is prohibited.

"Noxious Weed Seeds

Dodder (Cuscuta spp.)
Garlic, wild (Allium vineale)
Horsenettle (Solanum carolinense)
Onion, wild (Allium canadense)
Sowthistle, perennial (Sonchus arvensis)

"The label shall show the name and number per ounce of each kind of noxious weed seed or bulblet present in group 1 and the name and number per pound in group 2 below.

"It is unlawful to sell or offer for sale seeds which contain noxious weed seeds in excess of one seed or bulblet, singly or collectively, in each five grams of group 1 and in each one hundred grams in group 2.

"1. Agrostis spp., Rhodes grass, Bermuda grass, timothy, orchard grass, fescues, alsike and white clover, reed canary grass, Dallis grass, ryegrass, foxtail millet, alfalfa, red clover, sweet clover,

lespedezas, smooth brome, tall oat grass, crimson clover, Brassica spp., flax, Agropyron spp., and other agricultural seeds of similar size and weight, or mixtures within this group.

"2. Proso, wheat, Sudan grass, oats, rye, barley, buckwheat, sorghums, vetches and other agricultural seeds of a size and weight similar to or greater than those within this group, or any mixtures within this group.

"GERMINATION STANDARDS FOR VEGETABLE SEED. - Germination standards shall be the same as those published under the United States Department of Agriculture Service and Regulatory Announcements No. 156, or any later revision.

"The standard of germination for vegetable seeds as set up under the Federal Seed Act, is as follows:

	Percent		Percent
Artichoke	60	Leek	60
Asparagus	*70	Lettuce	80
Beans (except lima)	75	Muskmelon	75
Beans, asparagus	75	Mustard	75
Beans, lima	70	Mustard, spinach	75
Beans, runner	75	Mustard, vegetable	75
Beets	65	Okra	*50
Broccoli	75	Onion	70
Brussels sprouts	70	Pak-choi	75
Cabbage	75	Parsley	60
Cardoon	60	Parsnip	60
Carrot	55	Peas	80
Cauliflower	75	Pepper	55
Celery and celeriac	55	Pe-tsai or Chinese Cabbage	75
Chicory	65	Pumpkin	75
Citron	65	Radish	75
Collards	80	Rhubarb	60
Corn	75	Rutabaga	75
Cornsalad (Fetticus)	70	Salsify	75
Cowpea	75	Sorrel	60
Cress, garden	40	Soybean	75
Cress, water	35	Spinach (except New Zealand)	60
Cucumber	80	Spinach, New Zealand	40
Dandelion	45	Squash	75
Eggplant	60	Swiss Chard	65
Endive	70	Tomato	75
Kale	75	Tomato, husk	50
Kohlrabi	75	Turnip	80
		Watermelon	70

* Including hard seeds

"RESPONSIBILITY FOR OBTAINING NEW GERMINATION TEST. - The person or dealer upon whose premises seeds are located and are exposed or offered for sale will be held responsible for all labeling requirements including a new germination test and subsequently changing the analysis tags before the expiration date of the nine month period as stated in Section 5, Paragraph 1, of the Seed Act.

"CERTIFIED SEED. - Certificate numbers or code numbers as issued by this Department are legal for shipment of seed only within the State of Pennsylvania. Certified seed must meet the requirements of this act as to purity and germination."

TABLE I - WHOLESALERS FROM WHOM RETAILERS, LISTED IN TABLES II AND III, PURCHASED SEEDS IN 1947

WHOLESALER	ADDRESS	SAMPLES COLLECTED		
		LEGAL	ILLEGAL	TOTAL
ALTMAN'S CASH FEED STORE	Irwin, Pa.	1	2	3
ATLANTIC SEED CO.	Philadelphia, Pa.	10	0	10
BELT SEED CO., INC.	Baltimore, Md.	27	1	28
CONE, ARTHUR R.	Buffalo, N. Y.	3	0	3
COOVER, U. J., SEED CO.	Mt. Gilead, Ohio	1	0	1
CRAVER-DICKINSON SEED CO.	Buffalo, N. Y.	17	0	17
DICKINSON, ALBERT, CO.	Chicago, Ill.	9	0	9
DONLEY, J. L. & BRO.	Ashland, Ohio	1	0	1
EASTERN STATES FARMERS EXCH.	W. Springfield, Mass.	21	0	21
FOSTER-KENDALL CO.	Carmel, Ind.	2	0	2
G. L. F. MILLS, INC.	Buffalo, N. Y.	63	0	63
HIRSCH, HENRY & SONS, INC.	Toledo, Ohio	16	0	16
HOFFMAN, A. H., CO., INC.	Landisville, Pa.	6	0	6
HOUCK, E. J. & SON	Bangor, Pa.	12	0	12
HOYT SEED CO.	Fostoria, Ohio	1	0	1
LIVINGSTON SEED CO.	Columbus, Ohio	36	2	38
MAYER GRAIN CO.	S. Whitney, Ind.	1	0	1
MAYS SEED CO.	Weiser Park, Pa.	14	3	17
MOCK SEED CO.	Pittsburgh, Pa.	2	0	2
O. & M. SEED CO.	Green Springs, Ohio	1	0	1
OLIGER, J. C., SEED CO.	Akron, Ohio	1	0	1
PA. FARM BUREAU CO-OP. ASS'N., INC.	Harrisburg, Pa.	28	0	28
PHILADELPHIA SEED CO.	Philadelphia, Pa.	34	0	34
SCARLETT, W. G. & CO.	Baltimore, Md.	22	0	22
SEABOARD SEED CO.	Philadelphia, Pa.	54	0	54
STANFORD SEED CO.	Buffalo, N. Y.	26	0	26
UHLER, H. J.	Ardmore, Pa.	1	0	1
WERTHEIMER-McGUIN SEED CO.	Ligonier, Ind.	14	0	14
WHITNEY SEED CO.	Buffalo, N. Y.	3	0	3

TABLE II - SEED SAMPLES WHICH ARE BELOW STANDARD SET BY THE PENNSYLVANIA SEED LAW, GIVING WHOLESALER AND RETAILER OF THE SEEDS - 1947

Number and Name of Sample		Seedsmen			Pure Seed %	Crop Seeds %	Inert Matter %	Weed Seeds %	Germination %	Hard Seeds %	Nature of Violation
A470147 Red clover	W.	Belt Seed Co., Baltimore, Md.		G.	99.25	0.20	0.25	0.30	70.00	20.00	Tolerance exceeded
	R.	I. B. Secrist, Millerstown, Pa.		F.	97.44	1.84	0.72	----	-----	-----	
A470304 Red clover	W.	Livingston Seed Co., Columbus, Ohio		G.	99.00	0.24	0.26	0.50	75.00	15.00	Tolerance exceeded
	R.	Altman's Cash Feed Store, Hanover, Pa.		F.	97.54	0.27	0.40	1.78	-----	-----	
A470229 Timothy	W.	Livingston Seed Co., Columbus, Ohio		G.	99.60	0.05	0.25	0.10	90.00	-----	Tolerance exceeded
	R.	Elgin Mills, Elgin, Pa.		F.	98.50	0.41	0.56	0.52	-----	-----	
A470241 Timothy	W.	Livingston Seed Co., Columbus, Ohio		G.	99.60	0.15	0.10	0.15	90.00	-----	Tolerance exceeded
	R.	Roux Feed & Seed Co., Sharon, Pa.		F.	98.56	0.40	0.67	0.35	-----	-----	
A470192 Red clover	W.	Mays Seed Co., Weiser Park, Pa.		G.	96.40	1.60	0.72	1.28	67.00	23.00	Tolerance exceeded
	R.	Russell Felty Mill, Pine Grove, Pa.		F.	93.96	0.42	0.76	4.86	-----	-----	
A470035 Alfalfa	W.	Mays Seed Co., Weiser Park, Pa.		G.	99.30	0.04	0.56	0.10	65.00	26.00	Excess noxious weed seeds
	R.	Wells & Son, Parker Ford, Pa.		F.	(Examined for noxious weed seeds)						
A470037 Alsike cl. & White cl. Mixture	W.	Mays Seed Co., Weiser Park, Pa.	G.	A. cl.	92.10				78.00	13.00	Tolerance exceeded
				W. cl.	5.00	2.68	0.12	0.10	70.00	20.00	
	R.	Wells & Son, Parker Ford, Pa.	F.	A. cl.	91.18				-----	-----	
				W. cl.	4.37	4.20	0.15	0.10	-----	-----	

TABLE III - RETAILERS OF FARM SEEDS, FROM WHOM SAMPLES WERE COLLECTED IN THE ENFORCEMENT OF THE PENNSYLVANIA SEED LAW, 1947

RETAILER	ADDRESS	SAMPLES COLLECTED LEGAL	ILLEGAL	TOTAL
ACE, JAMES, CO.	Lemon, Pa.	1	0	1
ALTEMOSE, R. W.	Brodheadsville, Pa.	2	0	2
ALTMAN'S CASH FEED STORE	Butler, Pa.	1	0	1
ALTMAN'S CASH FEED STORE	Hanover, Pa.	3	1	4
ALTMAN'S CASH FEED STORE	Irwin, Pa.	3	0	3
ALTMAN'S CASH FEED STORE	Jeannette, Pa.	1	0	1
ALTMAN'S CASH FEED STORE	Kittanning, Pa.	1	0	1
ALTMAN'S CASH FEED STORE	Latrobe, Pa.	1	0	1
ALTMAN'S CASH FEED STORE	Mars, Pa.	1	0	1
ALTMAN'S CASH FEED STORE	New Brighton, Pa.	1	0	1
ALTMAN'S CASH FEED STORE	Scottdale, Pa.	1	0	1
ALTMAN'S CASH FEED STORE	Washington, Pa.	1	0	1
ALTMAN'S CASH FEED STORE	Wilkinsburg, Pa.	2	0	2
ANDERSON'S GRAIN & FEED CO.	York, Pa.	2	0	2
ANDREWS HDWE. CO.	Northumberland, Pa.	1	0	1
ATHENS CO-OP. G. L. F. SERVICE	Athens, Pa.	3	0	3
ATLANTIC SEED CO.	Philadelphia, Pa.	7	0	7
AYER, H. O.	Ulster, Pa.	2	0	2
BAKER, LUTHER	Millville, Pa.	1	0	1
BALSHI, A. J.	Catawissa, Pa.	1	0	1
BARTO, J. WILSON, SONS	Pine Grove, Pa.	1	0	1
BERKS CO. CO-OP. ASS'N.	Temple, Pa.	8	0	8
BERWICK G. L. F. SERVICE	Berwick, Pa.	3	0	3
BEST FEEDS & FARM SUPPLIES, INC.	Latrobe, Pa.	1	0	1
BEST FEEDS & FARM SUPPLIES, INC.	Washington, Pa.	1	0	1
BIRESAK FLOUR & FEED SUPPLY	Fayette City, Pa.	1	0	1
BITTLE, CHAS.	Schuylkill Haven, Pa.	2	0	2
BLACK HDWE. CO.	Liberty, Pa.	1	0	1
BOWSER, A. S.	Kittanning, Pa.	3	0	3
BRINTON, E. & SON	West Chester, Pa.	1	0	1
BROWN'S, J. H., SON	New Castle, Pa.	1	0	1
BROWN'S, J. H., SON	Ellwood City, Pa.	1	0	1
BUCKWALTER, S. S.	Spring City, Pa.	1	0	1
BURGER & O'BRIEN	Waterford, Pa.	3	0	3
BUTLER CO. FARM BUREAU CO-OP. ASS'N.	Portersville, Pa.	4	0	4
CANFIELD, J. N.	Bartonsville, Pa.	5	0	5
CANTON CO-OP. G. L. F. SERVICE	Canton, Pa.	1	0	1
CASH FEED & SUPPLY CO.	Huntingdon, Pa.	2	0	2
CASSEL, F. P. & SON	Lansdale, Pa.	3	0	3
CHAAPELS SEED STORE	Williamsport, Pa.	3	0	3
CHESTER CO. MILLS	West Chester, Pa.	1	0	1
CLARKS SUMMIT CO-OP. G. L. F. EXCH.	Clarks Summit, Pa.	1	0	1
CLEVELAND, STUART	Covington, Pa.	1	0	1
CLOSE & TREAT	Tioga, Pa.	1	0	1
COCHRANTON CO-OP. ASS'N.	Cochranton, Pa.	2	0	2
COCOLAMUS MILL	Cocolamus, Pa.	2	0	2
COLLEGEVILLE MILLS	Collegeville, Pa.	2	0	2
CONNEAUTVILLE FARMERS EXCH.	Conneautville, Pa.	1	0	1
CORRY CO-OP. G. L. F. SERVICE	Corry, Pa.	2	0	2
COUDERSPORT FEED & SUPPLY CO.	Coudersport, Pa.	2	0	2
CRAWFORD, FRED	Everett, Pa.	2	0	2
DALTON FEED CO.	Dalton, Pa.	1	0	1
DAYTON MILLING CO.	Towanda, Pa.	3	0	3
DEVITT, PAUL J.	Coatesville, Pa.	2	0	2

TABLE III - RETAILERS OF FARM SEEDS, FROM WHOM SAMPLES WERE COLLECTED IN THE ENFORCEMENT OF THE PENNSYLVANIA SEED LAW, 1947

RETAILER	ADDRESS	SAMPLES COLLECTED LEGAL	ILLEGAL	TOTAL
DICKINSON, ALBERT, CO.	Pittsburgh, Pa.	8	0	8
DIGGAN, R. F.	Hughesville, Pa.	2	0	2
DILLSBURG GRAIN & MILLING CO.	Dillsburg, Pa.	2	0	2
DOVER FEED CO.	Dover, Pa.	2	0	2
DUNHAM, ROY	Wellsboro, Pa.	1	0	1
DYSON'S SONS CO.	Loysville, Pa.	2	0	2
EASTERN STATES FARMERS EXCH.	Annville, Pa.	1	0	1
EASTERN STATES FARMERS EXCH.	Butler, Pa.	4	0	4
EASTERN STATES FARMERS EXCH.	Carlisle, Pa.	1	0	1
EASTERN STATES FARMERS EXCH.	Chambersburg, Pa.	2	0	2
EASTERN STATES FARMERS EXCH.	Collegeville, Pa.	1	0	1
EASTERN STATES FARMERS EXCH.	Dillsburg, Pa.	2	0	2
EASTERN STATES FARMERS EXCH.	Hanover, Pa.	2	0	2
EASTERN STATES FARMERS EXCH.	Mifflin, Pa.	2	0	2
EASTERN STATES FARMERS EXCH.	Newport, Pa.	2	0	2
EASTERN STATES FARMERS EXCH.	Newtown, Pa.	2	0	2
EASTERN STATES FARMERS EXCH.	York, Pa.	2	0	2
EDINBORO CO-OP. G. L. F. SERVICE	Edinboro, Pa.	3	0	3
ELGIN MILLS	Elgin, Pa.	1	1	2
EVERETT HDWE. CO.	Everett, Pa.	1	0	1
EWING, J. B.	Orbisonia, Pa.	2	0	2
FARM BUREAU CO-OP. ASS'N.	Avondale, Pa.	3	0	3
FARM BUREAU CO-OP. ASS'N.	Loysville, Pa., #1	2	0	2
FARM BUREAU CO-OP. ASS'N.	West Chester, Pa.	2	0	2
FARMERS CO-OP. ASS'N., INC.	Wysox, Pa.	1	0	1
FARMERS SEED CO.	Mifflinburg, Pa.	3	0	3
FARMERS SUPPLY CO.	Milan, Pa.	1	0	1
FARMERS UNION CO-OP. ASS'N.	Greencastle, Pa.	1	0	1
FAYETTE FEED CO.	Fayette City, Pa.	1	0	1
FEEDERS SUPPLY CO.	Aliquippa, Pa.	2	0	2
FELTY, RUSSELL, MILL	Pine Grove, Pa.	4	1	5
FISHER & SON CO.	Malvern, Pa.	2	0	2
FISHER & YOUNG	Titusville, Pa.	2	0	2
FORD & PALMER	Chester, Pa.	2	0	2
FRANKLIN FEED & SUPPLY CO.	Franklin, Pa.	1	0	1
FREYERMUTH, G. A. & SON	Sandy Lake, Pa.	5	0	5
GEE, F. H.	Middlebury Center, Pa.	1	0	1
GENERAL MILLS FARM SERVICE STORE	Oil City, Pa.	1	0	1
GLAZIER, K. S.	McConnellsburg, Pa.	2	0	2
GLESSMAN, L. A.	Conneautville, Pa.	1	0	1
G. L. F. MILLS SERVICE, INC.	Skinners Eddy, Pa.	3	0	3
G. L. F. SERVICE	Coudersport, Pa.	3	0	3
GOODMAN, ROSS E.	Huntingdon, Pa.	2	0	2
GOSS, S. H.	Lewistown, Pa.	3	0	3
GRANTS FEED STORE	Meadville, Pa.	1	0	1
GREENE CO. FARMERS EXCH.	Waynesburg, Pa.	1	0	1
GROVE, H. W.	West Milton, Pa.	1	0	1
HARNER FEED & COAL CO.	Conneaut Lake, Pa.	2	0	2
HARNER, R. F.	Valley View, Pa.	1	0	1
HARRISVILLE MILLING CO.	Harrisville, Pa.	2	0	2
HARTZEL, F. D., SONS CO.	Chalfont, Pa.	1	0	1
HOFFMAN, A. H., INC.	Landisville, Pa.	5	0	5
HORN, D. E. & CO.	York, Pa.	2	0	2
HOUSTON, J. R.	Harrisville, Pa.	2	0	2
HOWELL, L. A., SONS	Morrisville, Pa.	1	0	1

TABLE III - RETAILERS OF FARM SEEDS, FROM WHOM SAMPLES WERE COLLECTED IN THE ENFORCEMENT OF THE PENNSYLVANIA SEED LAW, 1947

RETAILER	ADDRESS	SAMPLES COLLECTED LEGAL	ILLEGAL	TOTAL
HUNTSINGER'S MILL	Hegins, Pa.	2	0	2
JOHNSON BROS.	Kresgeville, Pa.	4	0	4
JUNIATA ROLLER MILLS	Thompsontown, Pa.	2	0	2
KEEBLERS FEED & FARM SUPPLIES	Montoursville, Pa.	3	0	3
KELLY MILLING CO.	Titusville, Pa.	4	0	4
KENNEDY, J. J. & SONS	Evans City, Pa.	2	0	2
KINTER & GROVE	Dillsburg, Pa.	2	0	2
KLINGERMAN, J. E.	Mainville, Pa.	4	0	4
KNOXVILLE CO-OP.	Knoxville, Pa.	1	0	1
KROME, A. E.	Gilbert, Pa.	5	0	5
LEAMANS SEED STORE	Waynesboro, Pa.	2	0	2
LINESVILLE CO-OP. G.L.F. SERVICE	Linesville, Pa.	2	0	2
LITZELMAN, GEO. A.	Dushore, Pa.	1	0	1
LONG, H. A. & SONS	Liverpool, Pa.	2	0	2
LUGG & CO.	Knoxville, Pa.	1	0	1
MASE & SCHANBACKER	Liberty, Pa.	1	0	1
MAYS SEED CO.	Weiser Park, Pa.	6	0	6
MEADVILLE CO-OP. ASS'N.	Meadville, Pa.	4	0	4
MERCER CO. FARM BUREAU CO-OP. ASS'N.	Mercer, Pa.	3	0	3
MERCER MILLING CO.	Mercer, Pa.	2	0	2
MILLER BROS.	Erie, Pa.	4	0	4
MILLER, E. G.	Girard, Pa.	3	0	3
MILLER, HARLAN	Dushore, Pa.	1	0	1
MOCK SEED CO.	Pittsburgh, Pa.	1	0	1
MORRIS, WALTER A.	Everett, Pa.	2	0	2
MUNGLE, S. E. & SONS	Beckville-Cressona, Pa., R.D.	3	0	3
MYERS, J. E.	Hughesville, Pa.	2	0	2
NEW ERA MILLS	Mansfield, Pa.	1	0	1
NOLAN, JOHN	Malvern, Pa.	5	0	5
OBERT, H. L.	Dushore, Pa.	3	0	3
OIL CITY MILLING CO.	Oil City, Pa.	1	0	1
OMWAKE & OLIVER	Greencastle, Pa.	2	0	2
OWINGS BROS.	York, Pa.	2	0	2
PALMER FEED CO.	Linesville, Pa.	1	0	1
PERRY FARM BUREAU CO-OP. ASS'N.	Newport, Pa.	2	0	2
PHILADELPHIA SEED CO.	Philadelphia, Pa.	13	0	13
RADLE, GEO. W.	Mt. Union, Pa.	2	0	2
REEDSVILLE MILLING CO.	Reedsville, Pa.	2	0	2
RHOADS, L. E.	Selinsgrove, Pa.	2	0	2
RIEGEL'S	Berwick, Pa.	1	0	1
ROHRER, P. L. & BRO.	Smoketown, Pa.	4	0	4
ROSENBERGER, H. B.	Doylestown, Pa.	3	0	3
ROUX FEED & SEED CO.	Sharon, Pa.	1	1	2
SAWYER, AMOS, ESTABLISHMENT	Trout Run, Pa.	1	0	1
SEABOARD SEED CO.	Philadelphia, Pa.	9	0	9
SECRIST, I. B.	Millerstown, Pa.	1	1	2
SERFOSS, M. L.	Brodheadsville, Pa.	2	0	2
SHAPELL, H. R.	Ringtown, Pa.	8	0	8
SHOENBERGER, O. F.	Kunkletown, Pa.	3	0	3
SMITH, GARD M.	Blain, Pa.	2	0	2
SMITH MILLING CO.	Mt. Union, Pa.	1	0	1
SNOOK, J. H.	Mifflinburg, Pa.	1	0	1
SNYDER FARM SUPPLY CO.	Williamsport, Pa.	3	0	3
SOHLI, W. E.	Harmony, Pa.	3	0	3

TABLE III - RETAILERS OF FARM SEEDS, FROM WHOM SAMPLES WERE COLLECTED IN THE ENFORCEMENT OF THE PENNSYLVANIA SEED LAW, 1947

RETAILER	ADDRESS	SAMPLES COLLECTED LEGAL	ILLEGAL	TOTAL
SOMERSET MILLING CO.	Somerset, Pa.	1	0	1
STAHL'S FLOUR & FEED MILL	Milton, Pa.	1	0	1
STANFORD SEED CO.	Pittsburgh, Pa.	9	0	9
STARR, FRED D.	Muncy Valley, Pa.	1	0	1
STARR, S. R.	Valley View, Pa.	1	0	1
STEESE, Z. A.	Winfield, Pa.	1	0	1
STERNER, W. L.	Hanover, Pa.	2	0	2
SUNSHINE FEED STORE	Dillsburg, Pa.	2	0	2
SUNSHINE FEED STORE	Sunbury, Pa.	1	0	1
SWITZGABLE BROS.	Brodheadsville, Pa.	4	0	4
TETAR, L. A.	Zion Grove, Pa.	2	0	2
THOMPSONTOWN FLOUR & FEED MILL	Thompsontown, Pa.	2	0	2
THRIFT FEED MILLS	Doylestown, Pa.	3	0	3
ULSH POULTRY FARM & HATCHERY	Port Trevorton, Pa.	1	0	1
UNION CITY CO-OP. ASS'N.	Union City, Pa.	8	0	8
VANDERVORT MILLS	Wysox, Pa.	1	0	1
WATERFORD CO-OP. G.L.F. SERVICE	Waterford, Pa.	2	0	2
WELLER, C. B.	McConnellsburg, Pa.	2	0	2
WELLS & SON	Parker Ford, Pa.	4	2	6
WENTZEL, H. R. & SON	Landisburg, Pa.	2	0	2
WENTZEL, H. R. & SON	Newport, Pa.	2	0	2
WEST, H. G.	Slippery Rock, Pa.	3	0	3
WEST MANHEIM UNITED FARMERS ASS'N.	Hanover, Pa.	2	0	2
WHITE, A. H.	Monroeton, Pa.	1	0	1
WHITENIGHT & SONS	Bloomsburg, Pa.	2	0	2
WINEY, H. G.	Middleburg, Pa.	1	0	1
WOLF, GEO. L.	McConnellsburg, Pa.	2	0	2
YOUNG CO., THE	Hanover, Pa.	2	0	2

TABLE IV - AGRICULTURAL AND VEGETABLE SEED SAMPLES ANALYZED AND TESTED FOR FARMERS AND SEEDSMEN FOR WHICH A FEE WAS RECEIVED

KIND OF SEED	SAMPLES ANALYZED FOR PURITY	SAMPLES TESTED FOR GERMINATION
Alfalfa	1	1
Barley	3	2
Beans	-	5
Buckwheat	4	6
Cantaloupe	-	1
Celery	-	3
Clover, Red	20	19
Clover, Red and Timothy Mixture	1	1
Corn	5	15
Fescue, Chewings Red	1	1
Oats	3	3
Orchard grass	2	2
Pasture Mixture	1	-
Rye	2	2
Ryegrass	1	1
Soybeans	2	3
Spinach	1	2
Timothy	39	37
Tomato	-	1
Wheat	10	16

TABLE V - THE FOLLOWING TABLE GIVES THE KIND, VARIETY AND NUMBER OF SAMPLES TESTED FOR THE SEED CERTIFICATION SERVICE OF THE BUREAU OF PLANT INDUSTRY

KIND	VARIETY	NUMBER OF SAMPLES
Barley	Kentucky #1	7
	Wong	81
Corn, Hybrid	Cornell 29-3	10
	Cornell 35-5	9
	Iowa 939	10
	K-24	19
	Ohio C-12	4
	Ohio W-36	6
	U. S. 13	17
	W-10	1
Oats	Beaver	7
	Benton	5
	Clinton	77
	Cornellian	3
	Patterson	3
	Vicland	13
Soybeans	Earlyanna	1
	Lincoln	18
Tomato	Bonny Best	2
	Colco	4
	Early Canner	3
	Grothens	9
	Marglobe	3
	Pan American	2
	Pritchard	1
	Rutgers	17
	Stokesdale	16
	Valiant	14
Wheat	Leaps Prolific	6
	Nittany	10
	Nured	5
	Thorne	166